

# Preface

The International Journal of Aerospace Innovations is dedicated to publishing innovative and challenging work carried out within the aerospace community. The motivation behind publishing this special issue on Advanced Diagnostics of High-Speed Flows was to bring together a collection of some of the high quality and world class work being carried by the various research groups from around the world.

There are five papers included in this special issue covering some of the most fascinating and complicated fluid dynamics phenomena. The topics include shock-shock and shock-boundary layer interactions, novel flow diagnostic techniques including the background oriented schlieren and pressure sensitive paint methods, flow separation, and the unsteady shock reflection phenomenon.

The goal is to create a forum for communication between the various researchers, be they theorists or experimentalists, to discuss their challenges and accomplishments but most importantly their failures and setbacks so that others, especially the younger generation, can benefit from them and be inspired to do much more.

My supervisor and mentor once told me that ‘we do not want to reinvent the wheel,’ and this phrase resonated with me deeply. Clearly repeating the mistakes of others is a waste of time and resources. We hope that we can expand our knowledge and experience by paying more attention to the works of others, and taking their work to the next level.

We wish all researchers and enthusiasts who read this special issue the best of luck in all their endeavours.

“All we can do is try”

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